This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. (Currently Amended): A canonic dye Gationic dyes of the general formula I

CAT Y (I),

wherein

CAT' is a cation selected from azine, xanthene, polymethine, styryl, azo, tetrazolium, pyrylium, benzopyrylium, thiopyrylium, benzothiopyrylium, thiazine, oxazine, triarylmethane, diarylmethane, acridine, quinoline, isoquinoline, and quaternized azafluorenone dyes,

where Y is an anion selected from the group CAB, FAP, FAB, and of Im,

₩ħere

CAB' conforms to the general formula (II-1)

$$[B(CN)_{y1}F_{4-y1-k1}(R^0)_{k1}]^T$$
 (II-1)₄

and

yl <u>is denotes</u> 1, 2, 3 or 4,

x1 is denotes 0, 1, 2 or 3, and

 R^0 is denotes alkyl, aryl, fluorinated alkyl, fluorinated aryl, cycloalkyl or alkylaryl, with the condition that R^0 may be hydrogen if yl is >2,

where

FAP conforms to the general formula (II-2)

$$[P(C_{p2}F_{2p2+1-m2}H_{m2})_{y2}F_{6-y2}] - (II-2)_{a}$$

with

p2 [[:]] is 1 to 20,

m2 [[:]]is 0, 1, 2 or 3, and

y2 [[:]] is 1, 2, 3 or 4,

where

FAB conforms to the general formula (II-3)

$$[B(C_{p3}F_{2p3+1-m3}H_{m3})_{y3}F_{4-y3}]$$
 (II-3)₂

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with
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p3 [[.]]is 1 to 20,

m3 [[:]]is 0, 1, 2 or 3, and

y3 [[.]] is 1. 2, 3 or 4.

Whote

Im' conforms to the general formula (II-4)

 $[(C_{y4}F_{2p4+1-m4}H_{m4}XO_{y4}) N (C_qF_{2q+1-k}H_kXO_{y4})]^{-} (\Pi-4)_{k}$

and the variables

X is denotes carbon or sulfur,

p4 is denotes 0 to 20 and $0 \le m4 \le 2p4+1$,

q is denotes 0 to 20 and $0 \le k \le 2q+1$,

y4 <u>15 denotes</u> 1 or 2,

WHUTO

m4 <u>is</u> [[=]] 0 if p4 <u>is</u> [[=]] 0, and

k is [[=]] 0 if q is [[=]] 0, and

the carbon atoms of the alkyl chain of the formula II-4 may be bonded to one another by single bonds, where the resultant alkylene chain may in turn be partially or fully substituted by F:

with the proviso provisos that.

If X is sulfur, y4 is denotes 2, and if X is carbon, y4 is denotes 1 and p4 or q ≥ 1, and and where the carbon atoms of the alkyl chain of the formula Ω 4 may be bonded to one another by single bonds, where the resultant alkylene-chain may in turn be partially or fully substituted by F:

and

CAT is a cation selected from the group of the azine, xanthone, polymethine, styryl, use, tetrazoltum, pyrylium, benzopyrylium, thiopyrylium, benzothtopyrylium, thiuzine, oxuzine, triarylmethane, diarylmethane, aeridine, quineline, isoquineline or quaternised azafluorenene dyes;

where 3,3'-diethoxyethyl-2,2'-thiadicarbocyanine trifluoromethyltrilluoroborate is excluded.

- 2. (Currently Amended). A dye Dyes according to Claim 1, wherein character-ized-in that CAT is a cation of an azine dye.
- 3. (Currently Amended): A dye Dyes according to Claim 1, wherein characterused in that CAT is a cation of a xanthene dye.
- 4. (Currently Amended): A dyc Dyes according to Claim 1, wherein characterited in that CAT is a cation of a polymethine dye.
- 5. (Currently Amended): A dyc Dyes according to Claim 1, wherein characterised in that CAT is a cation of a styryl dye.
- 6. (Currently Amended): A dye Dyes according to Claim 1, wherein characterised in that CAT is a cation of an azo dye.
- 7. (Currently Amended): A dye Dyes according to Claim 1, wherein elementerised in that CAT is a cation of a terrazolium dye.
- 8. (Currently Amended): A dye Dyes according to Claim 1, wherein characterisod in that CAT is a cation of a pyrylium dye
- 9. (Currently Amended): A dye Dyes according to Claim 1, wherein character-ised-in-that CAT is a cation of a benzopyrylium dye.
- 10. (Currently Amended): A dye Dyes according to Claim 1, wherein sharacter is a cation of a thiopyrylium dye.
- 11. (Currently Amended): A dye Dyes according to Claim 1, wherein characterised in that CAT is a canon of a benzothiopyrylium dye.

- (Currently Amended): A dye Dyes according to Claim 1, wherein character-12 ised in that CAT' is a cation of a thiazine dye.
- (Currently Amended): A dye Dyes according to Claim 1, wherein character-13. ised in that CAT is a cation of an uxazine dye.
- (Currently Amended): A dye Dyes according to Claim 1, wherein wherear 14. ined in that CAT is a cation of a triarylmethane dye.
- (Currently Amended): A dye Dyes according to Claim 1, wherein character-15. ised in that " is a cation of a diarylmethane dye.
- (Currently Amended): A dye Dyes according to Claim 1, wherein character-16. ised in that CAT is a cation of an acridine dye.
- (Currently Amended): A dve Dyes according to Claim 1, wherein character-17. ised in that CAT' is a catton of a quinoline dye.
- (Currently Amended): A dye Dyes according to Claim 1, wherein character-18. used in that CAT is a cation of an isoquinoline dye.
- (Currently Amended): A dye Dyes according to Claim 1, wherein charactermed in that CAT' is a cation of a quaternary azafluorenone dye
- (Currently Amended): A dye Dyes according to Claim 4, wherein character-20. ised in that CAT is a cation of a cyanine dye.
- (Currently Amended): A dye Dyes according to Claim 4, wherein character-21. ised in that CAT is a cation of a carbocyanine dye.
 - (Currently Amended): A dye Dyes according to Claim 4, wherein character-22.

ised in that CAT is a cation of an azacarbocyanine dye.

- 23. (Currently Amended): A dye Dyes according to Claim 4, wherein characterised in that CAT is a cation of a diazacarbocyanine dye.
- 24. (Currently Amended): A dye Dyes according to Claim 4, wherein characterisod in that CAT is a canon of a triazacarbocyanine dye.
- 25. (Currently Amended): A dye Dyes according to Claim 4, wherein character that CAT is a cation of a hemicyanine dye.
- 26. (Currently Amended): A dye Dyes according to Claim 4, wherein character-
- 27. (Currently Amended): A dye Dyes according to claim 1, wherein character isod in that Y' is a cyanoborate of the formula II-1

$$[B(CN)_{y_1}F_{4-y_1-x_1}(R^0)_{x_1}]$$
 (II-1)_x

wherein and

- yl <u>is denous</u> 1, 2, 3 or 4.
- \underline{is} denotes 0, 1, 2 or 3 and
- R^0 is denotes alkyl, aryl, fluorinated alkyl, fluorinated aryl, cycloalkyl or alkylaryl, with the condition that R^0 may be hydrogen if yl is >2.
- 28. (Currently Amended): A dye Dyes according to claim 1, wherein characterised in that Y is a fluoroalkylphosphate of the formula II-2

$$[P(C_{p2}F_{2p2+1-m2}H_{m2})_{y2}F_{6-y2}]^{-} (II-2)_{x}$$

wherein with

p2 is 1 to 20, m2 is 0, 1, 2 or 3 and y2 is 1, 2, 3 or 4 p2: 1-to 20,

29. (Currently Amended): A dye Dyes according to claim 1, wherein character-ised in that Y is a fluoroalkylborate of the formula II-3

$$[B(C_{p3}F_{2p3+1-m3}H_{an3})_{y3}F_{+y3}]$$
 (II-3).

wherein with

p3 <u>is</u> 1 to 20,

m3 $\underline{is} 0, 1, 2 \text{ or } 3 \text{ and}$

y3 <u>is</u> 1, 2, 3 or 4,

——where 3,3' diethoxyethyl-2,2' thiadiearbocyanine trifluoromethyltrifluoro-borate is excluded.

(Currently Amended): A dye Dyes according to claim 1, wherein characterited in that Y' is an imide of the formula II-4

$$[(C_{p+}F_{2p+1-m4}H_{m4}XO_{y4})N(C_{q}F_{2q+1-k}H_{k}XO_{y4})]^{-} (\Pi-4)$$

wherein and the vanublus

- X is denotes carbon or sulfur.
- p4 is denoted 0 to 20 and $0 \le m4 \le 2p4+1$,
- $\frac{1}{4}$ $\frac{1}$
- y4 <u>is denotes</u> 1 or 2,
- m4 is 0 if p4 is 0, and
- k 150 if q is0.

where m4 = 0 if p4 = 0 and k = 0 if q = 0,

with the proviso that

if X is sulfur, y4 is denotes 2, and if X is carbon, y4 is denotes 1 and p4 or q ≥ 1, and where the carbon atoms of the alkyl chain of the formula ∏ 4 may be bended to one another by single bonds, where the resultant alkylene chain may in turn be partially or fully substituted by F

31. (Currently Amended): A process Process for the preparation of a cationic dye

dyes according to claim 1, said process comprising; characterised in that

reacting a compound of the general formula XXI

CATTA' (XXI),

where CAT is a cation selected from the group of the azine, aunthone, polymethine, styryl, azo, tetrazolium, pyrylium, benzopyrylium, thiopyrylium, benzothiopyrylium, thiazine, exazine, triarylmethane, diarylmethane, acridine, quineline, isoquineline or quaternised azaflueranene dyes

wherein and A' is denotes Cl', Br', I, BF₄, PF₆, ClO₄, sulfate, tosylate, hydrosulfate, triflate, triflate, triflate, acetate or oxalate,

to reacted with a compound of the general formula XXII

E'Y' (XXII)

wherein where Y is an anion selected from the group CAB, FAP, FAB or Im, where CAB conforms to the general formula (II-1)

yl -denotes 1, 2, 3 or 4;

*1 denotes 0, 1, 2 or 3 and

R⁶—denotes alkyl, aryl, fluorinated alkyl, fluorinated aryl, cycloalkyl or alkyluryl, with the condition that R⁶ may be hydrogen if yl 15->2,

where FAP conforms to the general formula (II-2)

[P(C_{p2}F_{2p2+1-m2}H_{m2})_{y2}F_{6-y2}]---(fl-2)

1 to 20,

m3 — 0, 1, 2 or 3 and y3 — 1, 2, 3 or 4, where Im conforms to the general formula (II 4) —
$$[(C_{p4}F_{2p+1-m}H_{m4}XO_{p4})N(C_{q}F_{2q+1-l}H_{m}XO_{p4})]^{-}$$
 — (II 4) und the variables X — denotes 0 to 20 and $0 \le m4 \le 2p+1$, q — denotes 0 to 20 and $0 \le k \le 2q+1$, where $m1 = 0$ if $p4 = 0$ and $k = 0$ if $q = 0$, with the provise

if X-is sulfur, y4 denotes 2 and if X is earbon, y4-denotes 1 and p4-or q ≥ 1. and where the earbon atoms of the alkyl chain of the formula II 1 may be bunded to one unother by single bonds, where the resultant alkylene chain may in turn be partially or fully substituted by F., and

E' is a cation selected from cations of the alkali metals, alkaline earth metals or of a metal from group 11 and 12, ammonium, alkylammonium containing C1-C4-alkyl, phosphonium, alkylphosphonium containing C1-C4-alkyl, and ex guanidinium.

(Currently Amended): A process Process for the preparation of carbocyanine 32. dye dyes according to Claim 21, where the carbocyanine dye conforms to the formula XXM

$$\bigcap_{R} C = C - (C = C)_{\alpha} - C = N + Y$$

$$\bigcap_{R} C = C - (C = C)_{\alpha} - C = N + Y$$

wherein in which

18 denotes 0, 1, 2, 3, 4 or 5, п

in each case, independently of one another, is denotes alkyl, alkenyl, R cycloalkyl, aryl or heteroaryl, and

in each case, independently of one another, is denotes H, Cl, Br, I, alkyl, partially RI or fully chlorinated alkyl, alkenyl, cycloalkyl, aryl, heteroaryl, Oalkyl, Oaryl, Salkyl, Saryl, NHalkyl, N(alkyl)2, C(O)H, C(O)alkyl, C(O)aryl, CN, N=N-aryl, P(aryl)2, NHC(O)alkyl or MERCK-3134

NHC(O)aryl and

the ring system, represented by

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 &$$

18 denotes a nitrogen-containing unsaturated mono-, bi- or tricyclic heterocycle having 5 to 13 ring members, which optionally contains may furthermore contain 1, 2 or 3 N and/or 1 or 2 S or O atoms and in which the heterocyclic radical is optionally may be mono- or polysubstituted by Z,

Z is denotes hydrogen, alkyl, NO2, P, Cl. Br. L OH, COOH, Oalkyl, SCN, SCP3, COOalkyl, CH2-COOalkyl, NH2. NHalkyl or N(alkyl)2

and

whore

Y' is an anion selected from the group CAB', FAP', FAB and or Im',

where

CAB conforms to the general formula (II-1)

$$[B(CN)_{y_i}F_{4-y_i-x_i}(R^0)_{x_i}]^T$$
 (II-1)

und

yl <u>is denotes</u> 1, 2, 3 or 4,

x1 is denotes 0, 1, 2 or 3, and

 R^0 is denotes alkyl, aryl, fluorinated alkyl, fluorinated aryl, cycloalkyl or alkylaryl, with the condition that R^0 may be hydrogen if yl is >2,

where

FAP conforms to the general formula (II-2)

$$[P(C_{p2}F_{2p2+1-m2}H_{m2})_{y2}F_{6-y2}] (II-2)_{x}$$

with

p2 [[:]]<u>is</u> 1 to 20,

m2 [[:]]is 0, 1, 2 or 3, and

y2[[:]] is 1, 2, 3 or 4,

where

FAB conforms to the general formula (II-3)

with

p3 [[:]]is 1 to 20,

m3 [[:]]is 0, 1, 2 or 3, and

y3 [[:]] is 1, 2, 3 or 4.

whore

Im conforms to the general formula (II-4)

$$[(C_{p4}F_{2p4+1+m4}H_{m4}XO_{y4})N(C_{q}F_{2q+1+k}H_{k}XO_{y4})]^{2} \qquad (II-4)_{4}$$

and the variables

X 15 denotes carbon or sulfur,

p4 <u>is denotes</u> 0 to 20 and $0 \le m4 \le 2p4+1$,

q is denotes 0 to 20 and $0 \le k \le 2q+1$,

y4 <u>is denotes</u> 1 or 2,

whore

m4 \underline{is} [[=]] 0 if p4 \underline{is} [[=]] 0, and

k <u>is [[=]] O if q is [[=]] O, and</u>

the carbon atoms of the alkyl chain of the formula II-4 may be bonded to one another by single bonds, where the resultant alkylene chain may in turn be partially or fully substituted by F;

with the proviso that

if X is sulfur, y4 is denotes 2, and if X is carbon, y4 is denotes 1 and p4 or q ≥ 1, and where the earbon atoms of the alkyl chain of the formula Ω-4 may be bunded to one another by single bunds, where the resultant alkylene chain may in turn be partially or fully substituted by F;

said process comprising unlizing characterised in that use is mude of a compound of the formula XXIV

where the ring system, R, R¹ and Y have one of the meanings indicated in the case of formula XXIII, and

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- n <u>is denotes</u> 0, 1, 2, 3 or 4 and
- G is denotes hydrogen, alkyl, alkenyl, aryl, heteroaryl, N=C(R)₂, CONHaryl, C(O)aryl or CONHalkyl.
- 33. (Currently Amended): A compound according to Compounds of the formula XXIV

where

- n <u>is</u> denotes 0, 1, 2, 3 or 4,
- G is denotes hydrogen, alkyl, alkenyl, aryl, heteroaryl, N=C(R)₂, CONHaryl, C(O)aryl or CONHalkyl,
 - R is denotes alkyl, alkenyl, cycloalkyl, aryl or heteroaryl,
- R¹ is in each case, independently of one another, denotes H, Cl, Br, L alkyl, partially or fully chlorinated alkyl, alkenyl, cycloalkyl, aryl, heteroaryl, Oalkyl, Oaryl, Salkyl, Saryl, NHalkyl, N(alkyl)₂, C(O)H, C(O)alkyl, C(O)aryl, CN, N=N-aryl, P(aryl)₂, NHC(O)alkyl or NHC(O)aryl, and

the ring system, represented by

13 denotes a nitrogen-containing unsaturated mono-, bi- or tricyclic heterocycle having 5 to 13 ring members, optionally containing which may furthermore contain 1, 2 or 3 N and/or 1 or 2 S or O atoms and in which the heterocyclic radical is optionally may be mono-or polysubstituted by Z,

Z is denotes hydrogen, alkyl, NO2, F, Cl, Br, I, OH, COOH, Oalkyl, SCN, SCF3, COOalkyl, CH2-COOalkyl, NH2, NHalkyl or N(alkyl)2,

and

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where
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Y' is an anion selected from the group CAB', FAP', FAB' and or Im',

where

CAB' conforms to the general formula (II-1)

$$[B(CN)_{y1}F_{4-y1-x1}(R^0)_{x1}]^{-}$$
 (II-1).

und

yl <u>is denews</u> 1, 2, 3 от 4,

33 is denotes 0, 1, 2 or 3, and

 R^0 is denotes alkyl, aryl, fluorinated alkyl, fluorinated aryl, cycloalkyl or alkylaryl, with the condition that R^0 may be hydrogen if yl is >2,

where

FAP conforms to the general formula (II-2)

$$[P(C_{p2}F_{2p2+1-m2}H_{m2})_{y2}F_{6-y2}]^{T} (II-2)_{+}$$

with

p2 [[:]]15 1 to 20,

m2 [[:]]is 0, 1, 2 or 3, and

y2 [[:]] is 1, 2, 3 or 4,

where FAB' conforms to the general formula (II-3)

$$[B(C_{p3}F_{2p3+1-m3}H_{m3})_{y3}F_{4-y3}]^{-}$$
 (II-3)₄

with

p3 <u>is</u> 1 to 20,

m3 <u>is</u> 0, 1, 2 or 3, and

y3 is 1, 2, 3 or 4,

whore

Im conforms to the general formula (II-4)

$$[(C_{pq}F_{2p+1-m+}H_{m4}XO_{y4})N(C_qF_{2q+1-k}H_kXO_{y4})]$$
 (II-4).

and the variables

X is denows carbon or sulfur,

p4 is denotes 0 to 20 and $0 \le m4 \le 2p4+1$,

q is denotes 0 to 20 and $0 \le k \le 2q+1$,

y4 <u>is</u> denotes 1 or 2,

where

m4 is [[=]] 0 if p4 is [[=]] 0, and

k = is [[=]] 0 if q is [[=]] 0,

where the carbon atoms of the alkyl chain of the formula II-4 may be bonded to one another by single bonds, and the resultant alkylene chain may in turn be partially or fully substituted by F;

with the provisos that:

if X is sulfur, y4 is denotes 2, and

If X is carbon, y4 is denotes 1 and p4 or q ≥ 1;

and where the eurbon atoms of the alkyl chain of the formula II-4 may be bonded to one another by single bonds, where the resultant alkylone chain may in turn be parnully of fully substituted by P.

34 (Currently Amended): A process Process for the preparation of a compound the compounds of the formula XXIV according to Claim 33, said process comprising reacting characterised in that

a compound of the formula XXV

+
$$N = C$$
 $C = C$
 $C = C$

in which

A is denoted Cl., Br., I, BF4, PF6, ClO4, sulfate, tosylate, hydrosulfate, triflate, trifluoroacetate, acetate or oxalate,

the ring system, represented by

or polysubstituted by Z,

- Z <u>is denotes</u> hydrogen, alkyl, NO₂, F, Cl, Br, I, OH, COOH, Oalkyl, SCN, SCF₃, COOalkyl, CH₂-COOalkyl, NH₂, NHalkyl, or N(alkyl)₂,
 - n <u>is denotes</u> 0, 1, 2, 3 or 4,
 - R 15 denotes alkyl, alkenyl, cycloalkyl, aryl or heteroaryl,
- R¹ is in each case, independently of one another, denotes H. Cl. Br. I. alkyl, partially or tully chlorinated alkyl, alkenyl, cycloalkyl, aryl, heteroaryl, Oalkyl, Oaryl, Salkyl, Saryl, NHalkyl, N(alkyl)₂, C(O)H, C(O)alkyl, C(O)aryl, CN, N=N-aryl, P(aryl)₂, NHC(O)alkyl, or NHC(O)aryl, and
- G 15 denotes hydrogen, alkyl, alkenyl, aryl, heteroaryl, N=C(R)2, CONHaryl, C(O)aryl, or CONHalkyl,

is reacted with a compound of the formula XXVI

E+Y

XXVL

in which

 E^+ is a cation of the alkali metals, alkaline earth metals or of a metal from group 11 and 12, ammonium, alkylammonium containing C_1 - C_4 -alkyl, phosphonium, alkylphosphonium containing C_1 - C_4 -alkyl, or guanidinium, and

where

Y' is an anion selected from the group CAB', FAP', FAB' and of Im',

Where

CAB' conforms to the general formula (II-1)

$$[B(CN)_{yi}F_{4-yi-xi}(R^0)_{xi}]^*$$
 (II-1)_a

and

yl <u>is denotes</u> 1, 2, 3 or 4,

x1 <u>is denotes</u> 0, 1, 2 or 3, and

substituted by F:

with the provisos that

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is denotes alkyl, aryl, fluorinated alkyl, fluorinated aryl, cycloalkyl or alkyl-
        R^0
aryl, with the condition that R<sup>0</sup> may be hydrogen if y1 is >2,
        Whore
        FAP conforms to the general formula (II-2)
                         [P(C_{p2}F_{2p2+1-m2}H_{m2})_{y2}F_{6-y2}]^{2} \qquad (II-2)_{x}
        with
        p2 [[.]] is 1 to 20,
         m2 [[:]]is 0, 1, 2 or 3, and
         y2 [[:]] is 1, 2, 3 or 4,
         where
         FAB conforms to the general formula (II-3)
                          [B(C_{\mu 3}F_{2p3+1-m3}H_{m3})_{y3}F_{4-y3}]
                                                             (II-3)_{\underline{\cdot}}
         with
         p3
                 <u>is</u> 1 to 20,
                 is 0, 1, 2 or 3, and
         ın3
                  is 1, 2, 3 or 4,
         y3
         whore
         Im conforms to the general formula (II-4)
                           [(C_{p+}F_{2p+1-m+}H_{m+}XO_{y+})N(C_{q}F_{2q+1-k}H_{k}XO_{y+})]^{*}
                                                                                    (\Pi - 4)_{*}
          and the variables
                  is denotes carbon or sulfur,
          X
                  is denotes 0 to 20 and 0 \le m4 \le 2p4+1.
          p4
                  18 denotes 0 to 20 and 0 \le k \le 2q+1,
          q
                   is denotes 1 or 2,
          y4
          where
                  15 [[=]] 0 if p4 is [[=]] 0, and
          m4
                   is [[=]] 0 if q is [[=]] 0,
          k
          where the carbon atoms of the alkyl chain of the formula Il-4 may be bonded to one
  another by single bonds, and the resultant alkylene chain may in turn be partially or fully
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if X is sulfur, y4 is denotes 2, and if X is carbon, y4 is denotes 1 and p4 or $q \ge 1$, and where the carbon atoms of the alkyl chain of the formula II 4 may be bonded to one unother by single bends, where the resultant alkylene chain may in turn be partially or fully substituted by F.

(Currently Amended): A process Process for the preparation of a compound **35**. compounds of the formula XXIV according to Claim 33, with the restriction that n in formula XXIV is denotes 0, characterised in that said process comprising:

reacting a compound of the formula XXVII

in which

is denotes hydrogen, alkyl, alkenyl, aryl, heteroaryl, N=C(R)2, CONHaryl, G C(O)aryl, or CONHalkyl, and

is denotes alkyl, alkenyl, cycloalkyl, aryl or heteroaryl, R

and

the ring system, represented by

is denotes a nitrogen-containing unsaturated mono-, bi- or tricyclic heterocycle having 5 to 13 ring members, which optionally further contains may furthermore contain 1, 2 or 3 N and/or 1 or 2 S or O atoms, and in which the heterocyclic radical is optionally may be monoor polysubstituted by Z,

is denotes hydrogen, alkyl, NO2, F, Cl, Br, I, OH, COOH, Oalkyl, SCN, SCF3, COOalkyl, CH2-COOalkyl, NH2, NHalkyl, or N(alkyl)2.

in reacted

with a compound HY,

where

Y' is an anion selected from the group FAP', FAB' and or Im',

where

FAP conforms to the general formula (II-2)

$$[P(C_{p2}F_{2p2+1-m2}H_{m2})_{y2}F_{6-y2}] \qquad (\text{II-2})_{4}$$

with

p2 [1:]]is 1 to 20,

m2 [[:]]is 0, 1, 2 or 3, and

y2 [[:]] is 1, 2, 3 or 4,

where

FAB conforms to the general formula (II-3)

$$[B(C_{p3}F_{2p3+1+m3}H_{m3})_{y3}F_{4-y3}]^{-}$$
 (II-3)

with

p3 is 1 to 20,

 $m3 <u>18</u> 0, 1, 2 or <math>3_2$ and

y3 <u>is</u> 1, 2, 3 or 4,

where

Im conforms to the general formula (II-4)

$$[(C_{pq}F_{2p+1-m+1}H_{m+1}XO_{y+1})N(C_{q}F_{2q+1-k}H_{k}XO_{y+k})]^{*}$$
 (II-4)

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X is denotes carbon or sulfur,

p4 is denotes 0 to 20 and $0 \le m4 \le 2p4+1$,

q is denotes 0 to 20 and $0 \le k \le 2q+1$,

y4 <u>is denoted</u> 1 or 2,

where

 $m4 = i \cdot [[=]] \cdot 0 \cdot 1 \cdot p4 \cdot is \cdot [[=]] \cdot 0$, and

 $k = \sum_{i \in [[=]]} 0 \text{ if } q \text{ is } [[=]] 0,$

where the carbon atoms of the alkyl chain of the formula II-4 may be bonded to one

another by single bonds, and the resultant alkylene chain may in turn be partially or fully substituted by F.

with the proviso provisos that

if X is sulfur, y4 is denotes 2, and if X is carbon, y4 is denotes 1 and p4 or q ≥ 1, and where the carbon atoms of the alkyl chain of the formula II 4 may be bonded to one another by single bonds, where the resultant alkylene chain may in turn be partially or fully substituted by F.

36. (Currently Amended): A process Process for the preparation of an azo dyes according to Claim 6, where the wherein said azo dye conforms to the formula XXVIII

$$(R' - N = N - R'')^{\dagger} Y$$

where

R' and R'' are each donote aryl or heteroaryl and one of the two aromatic nuclei is positively charged, and

WHUTE

Y' is an anion selected from the group CAB', FAP', FAB' and er Im',

where

CAB conforms to the general formula (II-1)

$$[B(CN)_{y1}F_{+y1-x1}(R^{0})_{x1}]$$
 (II-1),

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yl <u>is denoted</u> 1, 2, 3 or 4,

x1 is denutes 0, 1, 2 or 3 and

 R^0 is denotes alkyl, aryl, fluorinated alkyl, fluorinated aryl, cycloalkyl or alkylaryl, with the condition that R^0 may be hydrogen if yl is >2,

where

FAP conforms to the general formula (II-2)

$$[P(C_{\mu 2}F_{2\mu 2+1-m2}H_{\mu n2})_{y2}F_{6-y2}]^{-} \qquad (II-2)_{x}$$

with

p2 [[:]] is 1 to 20,

m2 [[:]]is 0, 1, 2 or 3, and

y2 [[:]] is 1, 2, 3 or 4,

whore

FAB conforms to the general formula (II-3)

$$[B(C_{p3}F_{2p3+1-in3}H_{m3})_{y3}F_{+y3}]^{-}$$
 (II-3).

with

p3 <u>is</u> 1 to 20,

m3 = is 0, 1, 2 or 3, and

y3 = 181, 2, 3 or 4,

where

lm' conforms to the general formula (II-4)

$$[(C_{pq}F_{2p4+1-m4}H_{m4}XO_{y4})N(C_{q}F_{2q+1-k}H_{k}XO_{y4})]^{T}$$
 (II-4)₂

and the varubles

X is donotes carbon or sulfur.

p4 is denotes 0 to 20 and $0 \le m4 \le 2p4+1$,

q is denotes 0 to 20 and $0 \le k \le 2q+1$,

y4 is denotes 1 or 2,

where

m4 is [[=]] 0 if p4 is [[=]] 0, and

k = is [[=]] 0 if q is [[=]] 0,

where the carbon atoms of the alkyl chain of the formula II-4 may be bonded to one another by single bonds, and the resultant alkylene chain may in turn be partially or fully substituted by F.

said process comprising reacting characterised in that a compound of the formula XXIX

$$R'-N_2^+$$
 Y- XXIX

where R' and Y' has one of the meaning indicated in the case of formula XXVIII,

is reacted

with an the aromatic cyclic or heterocyclic compound R".

37. (Currently Amended): A compound according to Compounds of the formula

XXIX

 $R'-N_2^+$ Y- XXIX

in which

R' is denotes aryl or heteroaryl, and

where

Y' is an anion selected from the group CAB', FAP', FAB' and or lm',

where

CAB conforms to the general formula (II-1)

$$[B(CN)_{y1}F_{4-y1-\lambda 1}(R^{0})_{x1}]^{*}$$
 (II-1)_x

and

yl <u>is denotes</u> 1, 2, 3 or 4,

 $\lambda 1$ is denotes 0, 1, 2 or 3, and

 R^0 is denotes alkyl, aryl, fluorinated alkyl, fluorinated aryl, cycloalkyl or alkylaryl, with the condition that R^0 may be hydrogen if yl is >2,

where

FAP conforms to the general formula (II-2)

$$[P(C_{p2}F_{2p2+1-m2}H_{\mu \mu 2})_{y2}F_{6-y2}]^{-} \qquad (\Pi-2)_{x}$$

with

p2 [[:]] is 1 to 20,

m2 [[.]]is 0, 1, 2 or 3, and

y2 [[:]] is 1, 2, 3 or 4,

where

PAB conforms to the general formula (II-3)

$$[B(C_{p3}F_{2p3+1-m3}H_{m3})_{y3}F_{4-y3}]$$
 (11-3),

with

p3 <u>is 1 to 20</u>,

m3 <u>is</u> 0, 1, 2 or 3, and

y3 <u>is</u> 1, 2, 3 or 4,

*hore

Im conforms to the general formula (II-4)

$$[(C_{p+}F_{2p+1+m+}H_{m+}XO_{y+})N(C_qF_{2q+1+}H_kXO_{y+})]^T \qquad (II-4)$$

and the variables

X is donotes carbon or sulfur,

p4 is denotes 0 to 20 and $0 \le m4 \le 2p4+1$,

q is denotes 0 to 20 and $0 \le k \le 2q+1$.

y4 <u>15</u> denotes 1 or 2,

whore

m4 \underline{is} [[=]] 0 if p4 \underline{is} [[=]] 0 and

k <u>is</u> [[=]] 0 if q <u>is</u> [[=]] 0,

where the carbon atoms of the alkyl chain of the formulae II-4 may be bonded to one another by single bonds, and wherein the resultant alkylene chain may in turn be partially or fully substituted by F;

with the provisor that

if X is sulfur, y4 is denotes 2, and if X is carbon, y4 is denotes 1 and p4 or q ≥ 1; and where the carbon atoms of the alkyl chain of the formulae H 4 may be bonded to one another by single bonds, where the resultant alkylene chain may in turn be partially or fully substituted by F.

- 38. (Currently Amended): <u>In a method of Use of the dyes according to claim 1 for</u> colouring plastics and plastic fibres, <u>preparing</u> for the preparation of flexographic printing inks, as ball-point pen pastes, <u>or an stamp ink, for colouring leather and paper, in preparing cosmetic formulations in the paints industry, or coloring in biochemistry, biology, medicine, analytics or electronics, the improvement wherein a dye according to claim 1 is used for coloring.</u>
- 39. (Currently Amended): <u>In a method of using a dye Use of the dyes according to claim 1</u> in data acquisition systems, reprography, in ink microfilters, in photogateanics, laser technology or the photo industry, the improvement wherein said dye is a dye according to

claim 1.

- 40. (Currently Amended): In a method of using a dye Use of the dyes according to claim 1 for CD recorders, DVD recorders (DVD+R, DVD+RW), Bluray disc (BD-ROM, BD-R, BD-RE), computer to plate, laser filters, laser marking or photopolymerisation, the improvement wherein said dye is a dye according to claim 1.
- 41 (New): A dye according to Claim 28, wherein CAT is a cation of a polymethine dye.
 - 42. (New): A dye according to Claim 28, wherein p2 is 1, 2, 3, 4, 5, 6, 7 or 8.
 - 43. (New). A dye according to Claim 28, wherein p2 is 2, 3 or 4.
- 44. (New): A dye according to Claim 28, wherein Y is $PF_3(C_2F_5)_3$, $PF_3(C_4F_9)_3$, $PF_3(C_3P_7)_3$ or $PF_4(C_2F_5)_2$.